

**PALM INTRANET**Day : Thursday  
Date: 6/24/2004

Time: 15:09:17

## Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.  
Additionally, enter the **first few letters** of the Inventor's First name.

**Last Name****First Name**

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## Refine Search

### Search Results -

Term	Documents
SIN	269153
SINS	2251
RETROVIRAL	23837
RETROVIRALS	434
VECTOR	296164
VECTORS	150312
((SIN ADJ RETROVIRAL) ADJ VECTOR).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	14
((((SIN ADJ RETROVIRAL) ADJ VECTOR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	14

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L14

Refine Search

Recall Text 

Clear

Interrupt

### Search History

DATE: Friday, June 25, 2004   [Printable Copy](#)   [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=AND			
<u>L14</u>	((SIN adj retroviral) adj vector)	14	<u>L14</u>
<u>L13</u>	L12 not L7	4	<u>L13</u>
<u>L12</u>	L11 and L3	91	<u>L12</u>

<u>L11</u>	L10 same (within or at or in)	183	<u>L11</u>
<u>L10</u>	(LTR or 3'LTR or 5'LTR) same (splice adj donor)	337	<u>L10</u>
<u>L9</u>	Lewis-Claire.in.	8	<u>L9</u>
<u>L8</u>	(split adj intron) and (retrovirus or retroviral)	28	<u>L8</u>
<u>L7</u>	L6 and L3	89	<u>L7</u>
<u>L6</u>	L5 same (within or at or in)	209	<u>L6</u>
<u>L5</u>	(LTR or 3'LTR or 5'LTR) same (splice adj acceptor)	310	<u>L5</u>
<u>L4</u>	L3 and (split adj intron)	2	<u>L4</u>
<u>L3</u>	L2 same (retroviral or retrovirus)	162	<u>L3</u>
<u>L2</u>	(splice adj donor) same (splice adj acceptor)	1196	<u>L2</u>
<u>L1</u>	Uden-Mark.in.	3	<u>L1</u>

END OF SEARCH HISTORY

### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)  
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

\*\*\*\*\* HHHHHHHH SSSSSSSS?

### Status: Signing onto Dialog

\*\*\*\*\*

ENTER PASSWORD:

\*\*\*\*\* HHHHHHHH SSSSSSSS? \*\*\*\*\*

Welcome to DIALOG

### Status: Connected

Dialog level 04.10.00D

Last logoff: 22jun04 13:28:46

Logon file001 25jun04 10:28:05

\*\*\* ANNOUNCEMENT \*\*\*

\*\*\*

NOTICE: Important news about Dialog Service Upgrade  
See HELP UPGRADE.

\*\*\*

--File 654 - US published applications from March 15, 2001 to the  
present are now online. Please see HELP NEWS 654 for details.

\*\*\*

--File 581 - The 2003 annual reload of Population Demographics is  
complete. Please see Help News581 for details.

\*\*\*

--File 990 - NewsRoom now contains February 2004 to current records.  
File 992 - NewsRoom 2003 archive has been newly created and contains  
records from January 2003. The oldest months's records roll out of  
File 990 and into File 992 on the first weekend of each month.  
To search all 2003 records BEGIN 990, 992, or B NEWS2003, a new  
OneSearch category.

\*\*\*

--Connect Time joins DialUnits as pricing options on Dialog.  
See HELP CONNECT for information.

\*\*\*

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--SourceOne patents are now delivered to your email inbox  
as PDF replacing TIFF delivery. See HELP SOURCE1 for more  
information.

\*\*\*

--Important Notice to Freelance Authors--  
See HELP FREELANCE for more information

\*\*\*

NEW FILES RELEASED

\*\*\*MetalBase (File 36)

\*\*\*AeroBase (File 104)

\*\*\*DIOGENES: Adverse Drug Events Database (File 181)

\*\*\*World News Connection (File 985)

\*\*\*Dialog NewsRoom - 2003 Archive (File 992)

\*\*\*TRADEMARKSCAN-Czech Republic (File 680)

\*\*\*TRADEMARKSCAN-Hungary (File 681)

\*\*\*TRADEMARKSCAN-Poland (File 682)

\*\*\*

UPDATING RESUMED

\*\*\*

RELOADED

\*\*\*Toxfile (File 156)

\*\*\*Medline (Files 154-155)

\*\*\*Population Demographic (File 581)  
\*\*\*CLAIMS Citation (Files 220-222)

REMOVED

\*\*\*

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<  
>>> of new databases, price changes, etc. <<<  
\*\*\*\*

KWIC is set to 50.  
HIGHLIGHT set on as '\*'  
\* \* \* \*

File 1:ERIC 1966-2004/Jun 09  
(c) format only 2004 The Dialog Corporation

Set	Items	Description
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Cost is in DialUnits

?b 155, 5, 73

25jun04 10:28:15 User259876 Session D641.1

\$0.32 0.090 DialUnits File1

\$0.32 Estimated cost File1

\$0.03 TELNET

\$0.35 Estimated cost this search

\$0.35 Estimated total session cost 0.090 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2004/Jun W2

(c) format only 2004 The Dialog Corp.

**\*File 155: Medline has been reloaded. Accession numbers**  
have changed. Please see HELP NEWS 154 for details.

File 5:BIOSIS Previews(R) 1969-2004/Jun W3

(c) 2004 BIOSIS

File 73:EMBASE 1974-2004/Jun W3

(c) 2004 Elsevier Science B.V.

Set	Items	Description
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?s (split (w) intron) and (retrovirus or retroviral)

59315 SPLIT

64932 INTRON

6 SPLIT(W)INTRON

40528 RETROVIRUS

37917 RETROVIRAL

S1 3 (SPLIT (W) INTRON) AND (RETROVIRUS OR RETROVIRAL)

?rd

...completed examining records

S2 1 RD (unique items)

?t s2/3,k/all

2/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

10561699 PMID: 10666267

**\*Split\*-intron\* retroviral\* vectors: enhanced expression with improved safety.**

Ismail S I; Kingsman S M; Kingsman A J; Uden M

Retrovirus Molecular Biology Group, Department of Biochemistry,  
University of Oxford, Oxford OX1 3QU, United Kingdom.

Journal of virology (UNITED STATES) Mar 2000, 74 (5) p2365-71,

ISSN 0022-538X Journal Code: 0113724

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**\*Split\*-intron\* retroviral\* vectors: enhanced expression with improved safety.**

The inclusion of \*retrovirus\*-derived introns within \*retrovirus\*-based expression vectors leads to a fraction of the resulting transcripts being spliced. Such splicing has been shown to markedly improve expression (W. J. Krall...

... and H. Garoff, Proc. Natl. Acad. Sci. USA 95:3650-3654, 1998). We now present a novel design for the inclusion of introns within a \*retroviral\* vector. In essence, this is achieved by exploiting the \*retroviral\* replication process to copy not only the U3 promoter but also a synthetic splice donor to the 5'-long-terminal-repeat position during reverse transcription...

...vectors to produce enhanced expression from near fully spliced (and thus packaging signal minus) transcripts. The unique design of these high titer and high-expression \*retroviral\* vectors may be of use in a number of gene therapy applications.

?ds

Set	Items	Description
S1	3	(SPLIT (W) INTRON) AND (RETROVIRUS OR RETROVIRAL)
S2	1	RD (unique items)
?s	(LTR or 3'LTR or 5'LTR)	(s) (splice (w) acceptor)
	12913	LTR
	0	3LTR OR 5LTR
	35778	SPLICE
	57327	ACCEPTOR
S3	47	(LTR OR 3'LTR OR 5'LTR) (S) (SPLICE (W) ACCEPTOR)
?s	(LTR or 3'LTR or 5'LTR)	(s) (splice (w) donor)
	12913	LTR
	0	3LTR OR 5LTR
	35778	SPLICE
	241352	DONOR
S4	64	(LTR OR 3'LTR OR 5'LTR) (S) (SPLICE (W) DONOR)
?s	s4 and (splice (w) acceptor)	
	64	S4
	35778	SPLICE
	57327	ACCEPTOR
	2395	SPLICE(W)ACCEPTOR
S5	18	S4 AND (SPLICE (W) ACCEPTOR)
?rd		
...completed	examining records	
S6	7	RD (unique items)
?t	s6/3,k/all	

**6/3,K/1 (Item 1 from file: 155)**

DIALOG(R) File 155:MEDLINE(R)

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13654268 PMID: 9349478

**Spliced human endogenous retroviral HERV-H env transcripts in T-cell leukaemia cell lines and normal leukocytes: alternative splicing pattern of HERV-H transcripts.**

Lindeskog M; Blomberg J  
Department of Medical Microbiology, Lund University, Sweden.  
mats.lindeskog@mmmb.lu.se

Journal of general virology (ENGLAND) Oct 1997, 78 ( Pt 10) p2575-85,  
ISSN 0022-1317 Journal Code: 0077340

Erratum in J Gen Virol 1998 Jan;79(Pt 1) 212

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... by using RT-PCR. transcripts all contained a splice donor in the leader region downstream from the primer-binding site and a previously unreported \*splice\* \*acceptor\* in the integrase-encoding region of pol, absent in the HERV-H deletion elements. In singly spliced transcripts the leader and integrase regions were joined...

...the protease and integrase regions were joined, removing most of pol but leaving gag intact. Other spliced transcripts, joining the protease region and the 3' \*LTR\*, were also amplified. The fact that HERV-H elements with an intact env \*splice\* \*acceptor\* also use the splice sites in the protease-encoding region suggests that this unusual multiple splice pattern could have a biological function in the intact...

6/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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13626473 PMID: 9312033

**The HIV-1 5' LTR poly(A) site is inactivated by U1 snRNP interaction with the downstream major \*splice\* \*donor\* site.**

Ashe M P; Pearson L H; Proudfoot N J

Sir William Dunn School of Pathology, Oxford University, South Parks Road, Oxford OX1 3RE, UK.

EMBO journal (ENGLAND) Sep 15 1997, 16 (18) p5752-63, ISSN 0261-4189 Journal Code: 8208664

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**The HIV-1 5' LTR poly(A) site is inactivated by U1 snRNP interaction with the downstream major \*splice\* \*donor\* site.**

... production of HIV-1 transcripts. In this paper, we demonstrate that this inactivity is mediated by the interaction of the U1 snRNP with the major \*splice\* \*donor\* site (MSD). The inhibition of the HIV-1 poly(A) site by U1 snRNP relies on a series of delicately balanced RNA processing signals. These include the poly(A) site, the major \*splice\* \*donor\* site and the \*splice\* \*acceptor\* sites. The inherent efficiency of the HIV-1 poly(A) site allows maximal activity where there is no donor site (in the 3' \*LTR\*) but full inhibition by the downstream MSD (in the 5' \*LTR\*). The MSD must interact efficiently with U1 snRNP to completely inhibit the 5' \*LTR\* poly(A) site, whereas the \*splice\* \*acceptor\* sites are inefficient, allowing full-length genomic RNA production.

6/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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12710442 PMID: 7632393

**The effect of various introns and transcription terminators on the efficiency of expression vectors in various cultured cell lines and in the mammary gland of transgenic mice.**

Petitclerc D; Attal J; Theron M C; Bearzotti M; Bolifraud P; Kann G; Stinnakre M G; Pointu H; Puissant C; Houdebine L M

Agriculture et Agro-Alimentaire Canada, Est Lennoxville, Quebec.

Journal of biotechnology (NETHERLANDS) Jun 21 1995, 40 (3) p169-78, ISSN 0168-1656 Journal Code: 8411927

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... than the intron from the early genes (t). The synthetic intron SIS generated by the association of an adenovirus splice donor and an immunoglobulin G \*splice\* \*acceptor\* showed the highest activity. The respective potency of these introns was similar in several mammalian (CHO,

HC11 and COS) and fish (● and EPC) cells...

... not or only moderately enhanced the expression of the construct WAP bGH cDNA. Introduction of a promoter sequence from the mouse mammary tumor virus (MMTV) \*LTR\* in the VP1 intron increased very significantly the expression of the WAP bGH cDNA. Although several of these vectors showed high potency when expressed stably...

6/3,K/4 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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09952304 PMID: 8289332

**Transcriptional mapping of the 3' end of the bovine syncytial virus genome.**

Renshaw R W; Casey J W

Department of Microbiology, Immunology, and Parasitology, College of Veterinary Medicine, Cornell University, Ithaca, New York 14853.

Journal of virology (UNITED STATES) Feb 1994, 68 (2) p1021-8, ISSN 0022-538X Journal Code: 0113724

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...were subsequently isolated and characterized. The initial splice donor in each clone is located 49 bp downstream from the mRNA cap site in the 5' \*LTR\*. The primary \*splice\* \*acceptor\* site was located 17 bp upstream from the proximal 3' open reading frame known as BF-ORF1. A second major \*splice\* \*acceptor\* was localized to a region upstream of the second open reading frame, BF-ORF2. Clones were identified which spliced directly to each of these sites. Additional \*splice\* \*donor\* and acceptor sites within BF-ORF1 and BF-ORF2 and the 3' \*LTR\* were variously used to generate a complex array of multiply spliced transcripts. Each of these transcripts remained in frame and coded for a potential protein...

6/3,K/5 (Item 5 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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09062434 PMID: 1926777

**Analysis of alternatively spliced human immunodeficiency virus type-1 mRNA species, one of which encodes a novel tat-env fusion protein.**

Furtado M R; Balachandran R; Gupta P; Wolinsky S M

Department of Medicine, Northwestern University Medical School, Chicago, Illinois 60611.

Virology (UNITED STATES) Nov 1991, 185 (1) p258-70, ISSN 0042-6822 Journal Code: 0110674

Contract/Grant No.: AI-32535; AI; NIAID; AI-72631; AI; NIAID

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... recognized both leaky scanning and reinitiation at downstream initiation codons as mechanisms that may operate during translation of many of the polycistronic messages. Two new \*splice\* \*acceptor\* sites, one at nt 6018 defining a new mRNA coding for the env and vpu proteins and another at nt 8671 defining a novel tat...

... region of gp41. The p17tev protein was able to transactivate transcription from the HIV-1 LTR in transient transfection assays. The use of multiple alternative \*splice\* \*donor\* and acceptor sites and the generation of novel proteins may confer evolutionary advantages on the viral mutants encoding them and influence the course of clinical...



6/3,K/6 (Item 6 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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08880793 PMID: 2024463

**Simian immunodeficiency virus (SIVmac) exhibits complex splicing for tat, rev, and env mRNA.**

Unger R E; Stout M W; Luciw P A

School of Medicine, Department of Medical Pathology, University of California, Davis 95616.

Virology (UNITED STATES) May 1991, 182 (1) p177-85, ISSN 0042-6822

Journal Code: 0110674

Contract/Grant No.: HL07013; HL; NHLBI; HL43609; HL; NHLBI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... Three species of mRNA encoding only rev, and three mRNA encoding both rev and tat were identified by nucleotide sequence analysis. They differed in the \*splice\* \*acceptor\* sites utilized upstream of the first coding exon, in the presence or the absence of noncoding exons between the major splice donor at the \*LTR\* and the \*splice\* \*acceptor\* at the first coding exons, and in the splicing pattern between the coding exons. Alternate splice acceptors were utilized between the coding exons of tat and rev, but the altered tat proteins did not differ in their ability to transactivate the SIV-\*LTR\*. The splicing for env mRNA is more complex than previously reported. Both singly and multiply spliced transcripts exist for env mRNA, and the same \*splice\* \*acceptor\* site is utilized by both rev and env mRNA.

6/3,K/7 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

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06179301 EMBASE No: 1995201112

**The effect of various introns and transcription terminators on the efficiency of expression vectors in various cultured cell lines and in the mammary gland of transgenic mice**

Peticlerc D.; Attal J.; Theron M.C.; Bearzotti M.; Bolifraud P.; Kann G.; Stinnakre M.-G.; Pointu H.; Puissant C.; Houdebine L.-M.

Unit Differenciacion Cellulaire, Inst. Nat. Recherche Agronomique, 78352 Jouy en Josas Cedex France

Journal of Biotechnology ( J. BIOTECHNOL. ) (Netherlands) 1995, 40/3 (169-178)

CODEN: JBITD ISSN: 0168-1656

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...genes (VP1) was much more efficient than the intron from the early genes (t). The synthetic intron SIS generated by the association of an adenovirus \*splice\* \*donor\* and an immunoglobulin G \*splice\* \*acceptor\* showed the highest activity. The respective potency of these introns was similar in several mammalian (CHO, HC11 and COS) and fish (TO2 and EPC) cells...

...not or only moderately enhanced the expression of the construct WAP bGH cDNA. Introduction of a promoter sequence from the mouse mammary tumor virus (MMTV) \*LTR\* in the VP1 intron increased very significantly the expression of the WAP bGH cDNA. Although several of these vectors showed high potency when expressed stably...

?ds

Set	Items	Description
S1	3	(SPLIT (W) INTRON) AND (RETROVIRUS OR RETROVIRAL)
S2	1	RD (unique items)

S3 47 (LTR OR 3'LTR OR 5'LTR) (S) (SPLICE (W) ACCEPTOR)  
 S4 64 (LTR OR 3'LTR OR 5'LTR) (S) (SPLICE (W) DONOR)  
 S5 18 S4 AND (SPLICE (W) ACCEPTOR)  
 S6 7 RD (unique items)  
 ?s (SIN (w) retroviral (w) vector)  
 9064 SIN  
 37917 RETROVIRAL  
 270312 VECTOR  
 S7 1 (SIN (W) RETROVIRAL (W) VECTOR)  
 ?t s7/3,k/all

7/3,K/1 (Item 1 from file: 5)  
 DIALOG(R)File 5:Biosis Previews(R)  
 (c) 2004 BIOSIS. All rts. reserv.

0011200485 BIOSIS NO.: 199799834545  
**Development of a conditional self-inactivating (C-\*SIN\*) \*retroviral\*  
 \*vector\* for liver-directed gene expression**  
 AUTHOR: Hwang J-J; Kaiser S; Anderson W F (Reprint)  
 AUTHOR ADDRESS: Univ. Southern California Sch. Med., Los Angeles, CA, USA\*\*  
 USA  
 JOURNAL: Hepatology 26 (4 PART 2): p195A 1997 1997  
 CONFERENCE/MEETING: 48th Annual Meeting of the American Association for the  
 Study of Liver Diseases Chicago, Illinois, USA November 7-11, 1997;  
 19971107  
 ISSN: 0270-9139  
 DOCUMENT TYPE: Meeting; Meeting Abstract  
 RECORD TYPE: Citation  
 LANGUAGE: English

**Development of a conditional self-inactivating (C-\*SIN\*) \*retroviral\*  
 \*vector\* for liver-directed gene expression**  
 ?ds

Set	Items	Description
S1	3	(SPLIT (W) INTRON) AND (RETROVIRUS OR RETROVIRAL)
S2	1	RD (unique items)
S3	47	(LTR OR 3'LTR OR 5'LTR) (S) (SPLICE (W) ACCEPTOR)
S4	64	(LTR OR 3'LTR OR 5'LTR) (S) (SPLICE (W) DONOR)
S5	18	S4 AND (SPLICE (W) ACCEPTOR)
S6	7	RD (unique items)
S7	1	(SIN (W) RETROVIRAL (W) VECTOR)

?logoff

25jun04 10:36:59 User259876 Session D641.2  
 \$1.16 0.363 DialUnits File155  
 \$1.47 7 Type(s) in Format 3  
 \$1.47 7 Types  
 \$2.63 Estimated cost File155  
 \$2.46 0.438 DialUnits File5  
 \$1.75 1 Type(s) in Format 3  
 \$1.75 1 Types  
 \$4.21 Estimated cost File5  
 \$2.86 0.292 DialUnits File73  
 \$2.70 1 Type(s) in Format 3  
 \$2.70 1 Types  
 \$5.56 Estimated cost File73  
 OneSearch, 3 files, 1.093 DialUnits FileOS  
 \$2.25 TELNET  
 \$14.65 Estimated cost this search  
 \$15.00 Estimated total session cost 1.184 DialUnits

### Status: Signed Off. (9 minutes)